

WHAT IS CLAIMED IS:

1. A pivotal shaft assembly for a plane display, comprising:

a bottom plate;

5 a fixing member, being mounted at a front side of the bottom plate and being composed of a support base and a joint seat with the joint seat at a center thereof having a through shaft groove;

10 a rotational member, being a U shaped frame, extending downward along two lateral sides thereof a wing plate respectively with the wing plate beside an inner side thereof being a packing ring and a space in between fitting with the joining seat and an axial bolt passing over a securing hole of the two wing plates and the shaft groove with an end of the axial bolt being engaged to one of the wing plates and another end of the axial bolt being engaged to a threaded fastener to commonly enclose and press against two lateral sides of the joining seat; and

15 a spherical nest device, having a positioning ball with an extension rod being enclosed with a semi-spherical durable ring at two lateral sides thereof respectively, being covered with a blocking lid and a front cover in a way of the extension rod piercing outward through the blocking lid to engage with the rotational member such that the rotational member can be adjusted an inclining angle backward and forward with respect to the fixing member and the front cover can be multi-directionally
20 adjusted with respect to the positioning ball.

2. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the blocking lid and the front cover provide at least three through holes and threaded joining holes respectively and the joining holes engage with screws, which pass through the through holes such that the blocking lid can press against or release from
25 the positioning ball.

3. The pivotal shaft assembly for a plane display as defined in claim 2, wherein the blocking lid at a periphery thereof is provided with outer threads and at a rear side

thereof has a plurality of operational holes, which space apart from each other with a circular equidistance and the front cover has inner threads such that two of the operational holes can be inserted with a fixture to turn the blocking lid so as to perform pressing against or releasing from the positioning ball.

5 4. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the bottom plate is provided with plate holes or plate grooves for being passed through with screws such that the bottom plate can be attached to a stationary object.

10 5. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the bottom plate at a center thereof is provided with at least a piercing hole and the fixing member at a support base thereof has a corresponding threaded hole disposed at a bottom edge thereof such that threaded hole can engage with a screw passing through the piercing hole so as to join the bottom plate and the fixing member.

15 6. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the bottom plate is provided with a plurality of locating holes and the fixing member at the support base thereof is provided with a plurality of corresponding locating tenons for aligning and fitting with each other.

20 7. The pivotal shaft assembly for a plane display as defined in claim 1, wherein each of the wing plates provides a plurality of fitting holes near a circumference thereof and each of the packing rings extends outward for being inserted to the fitting holes.

8. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the axial bolt at an end thereof has a bolt head with at least a flat edge and the wing plates has an engaging part with an extending stopper against the flat edge.

25 9. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the wing plates are covered with a decoration cover respectively.

10. The pivotal shaft assembly for a plane display as defined in claim 9, wherein the decoration cover at an inner side thereof provides cover projections for being inserted into the fitting holes.

5 11. The pivotal shaft assembly for a plane display as defined in claim 1, further includes a wire arranging device, which is formed with an engaging part extending from two opposite sides of one of the packing rings and a retaining ring at two ends thereof being attached to the engaging part to constitute a surrounded space for being passed by wires.

10 12. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the front cover at a front side thereof extends a connecting plate to join with a lap part at an inner side of the connecting plate and both the front cover and the connecting plate at two lower lateral sides thereof are provided with piercing holes and engaging holes for being joined to each other.

15 13. The pivotal shaft assembly for a plane display as defined in claim 1, wherein the fastener is a hand knob threaded bolt.